STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 175358

TO: Ben Sackey **Location: 5b31 / 5c18** **Art Unit: 1626** **Friday, January 06, 2006** **Case Serial Number: 10 / 705659**	**From: Noble Jarrell** **Location: Biotech-Chem Library** **Rem 1B71** **Phone: 272-2556** **Noble.jarrell@uspto.gov**

Search Notes

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: BEN SACKEY Examiner #: 73489 Date: 12/30/05
Art Unit: 1626 Phone Number: 2-0704 Serial Number: 10/705,659
Location (Bldg/Room#): Rem 553 (Mailbox #): _____ Results Format Preferred (circle): PAPER DISK

****

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Compounds and Synthesis process.
Inventors (please provide full names): William J. Begley

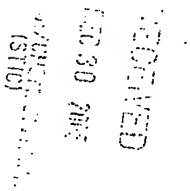
Earliest Priority Date: 11/10/03

Search Topic:
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

A process for preparing 6-chloro-2,5-dicarboxamide phenol comprising chlorinating 2-alkyl-6-aminobenzoxazole then to form 2-alkyl-6-amino-7-chlorobenzoxazole, reacting with an acid chloride and a base.

Thanks



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STAFF USE ONLY

Searcher: Noble
Searcher Phone #: _____
Searcher Location: _____
Date Searcher Picked Up: 1/6/06
Date Completed: 1/6/06
Searcher Prep & Review Time: 10
Online Time: 30

Type of Search

_____ NA Sequence (#)
_____ AA Sequence (#)
5 Structure (#)
✓ Bibliographic
_____ Litigation
_____ Fulltext
_____ Other

Vendors and cost where applicable

✓ STN _____ Dialog
_____ Questel/Orbit _____ Lexis/Nexis
_____ Westlaw _____ WWW/Internet
___ In-house sequence systems
___ Commercial ___ Oligomer ___ Score/Length
___ Interference ___ SPDI ___ Encode/Transl
_____ Other (specify)

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=> b reg
FILE 'REGISTRY' ENTERED AT 08:52:39 ON 06 JAN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES:     4 JAN 2006  HIGHEST RN 871209-00-6
DICTIONARY FILE UPDATES:    4 JAN 2006  HIGHEST RN 871209-00-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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L5                  STR
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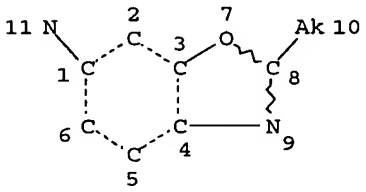


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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  11

STEREO ATTRIBUTES: NONE
L10          632 SEA FILE=REGISTRY SSS FUL L5

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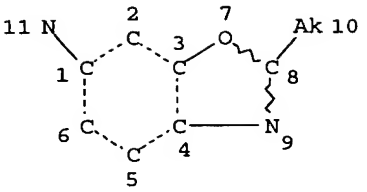

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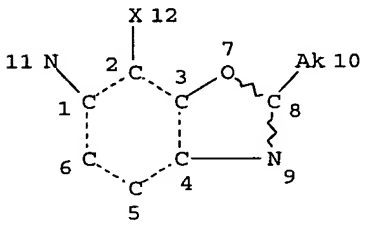

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STEREO ATTRIBUTES: NONE
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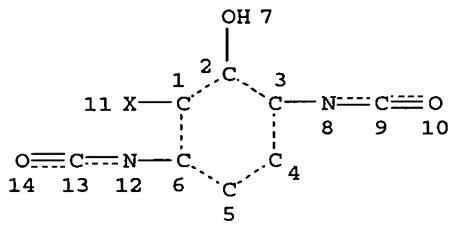

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STEREO ATTRIBUTES: NONE
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SEARCH TIME: 00.00.01

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FILE COVERS 1907 - 6 Jan 2006 VOL 144 ISS 2
FILE LAST UPDATED: 4 Jan 2006 (20060104/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr l24 tot

L24 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:411078 HCAPLUS
DN 142:463458
ED Entered STN: 13 May 2005
TI Process for preparing 6-chloro-2,5-dicarbonamidophenol compounds
IN **Begley, William J.**
PA **Eastman Kodak** Company, USA
SO U.S. Pat. Appl. Publ., 9 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM C07D-0263/52
ICS C07C-0231/10
INCL 548217000; 564155000
CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US2005101784	A1	20050512	2003US-0705659	20031110
	WO2005047271	A1	20050526	2004WO-US36261	20041029
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	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI 2003US-0705659 A 20031110

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2005101784	ICM	C07D-0263/52
	ICS	C07C-0231/10
	INCL	548217000; 564155000
	IPCI	C07D0263-52 [ICM,7]; C07C0231-10 [ICS,7]
	NCL	548/217.000
	ECLA	C07C315/04; C07D263/56B
WO2005047271	IPCI	C07D0263-56 [ICM,7]; C07C0317-22 [ICS,7]
	ECLA	C07C315/04; C07D263/56B

AB Disclosed is a process for preparing a 6-chloro-2,5-dicarbonamidophenol compds. comprising a step employing a 2-alkyl-6-aminobenzoxazole to form a 2-alkyl-6-amino-7-chlorobenzoxazole in which the 2-alkyl group is unbranched at the α-carbon. It also provides intermediate compds. useful in the process. The process provides a simple and safe way to prepare 6-chloro-2,5-dicarbonamidophenol compds. in good yield. Thus, nitration of 5-chloro-2-methylbenzoxazole by HNO3/H2SO4 at 20° gave 5-chloro-2-methyl-6-nitrobenzoxazole which was reduced over Raney nickel in THF at room temperature under H pressure of 50 psi to give 6-Amino-5-chloro-2-methylbenzoxazole (I). Chlorination of I by sulfuryl chloride in EtOAc for 1 h gave 6-amino-5,7-dichloro-2-methylbenzoxazole which was acylated by 2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl chloride in pyridine/EtOAc/THF at 15° for 30 min to give 6-[[2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl]amino]-5,7-dichloro-2-methylbenzoxazole (II). Hydrolysis of II in a mixture of concentrated HCl and THF at 65° for .apprx.3 h gave 6-amino-2,4-dichloro-3-[[2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl]amino]phenol which was acylated by 3,4-dichlorobenzoyl chloride in pyridine/THF at room temperature for 30 min to give 2,4-dichloro-3-[[2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl]amino]-6-(3,4-benzoylamino)phenol.

ST alkylaminochlorobenzoxazole prepn intermediate chlorodicarbonamidophenol; chlorodicarbonamidophenol prepn

IT 701-16-6, 5-Fluoro-2-methylbenzoxazole 3024-72-4, 3,4-Dichlorobenzoyl chloride 3282-30-2, Pivaloyl chloride 19219-99-9, 5-Chloro-2-methylbenzoxazole 851486-98-1, 2-[(4-Dodecyloxyphenyl)sulfonyl]butanoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(process for preparing 6-chloro-2,5-dicarbonamidophenol compds. by N-acylation of alkyl(amino)benzoxazole derivs. followed by hydrolysis and N-acylation)

IT **13452-16-9P**, 5-Chloro-2-methyl-6-nitrobenzoxazole **40703-40-0P**, 5-Fluoro-2-methyl-6-nitrobenzoxazole 98121-18-7P, 2-[(4-Dodecyloxyphenyl)sulfonyl]butanoyl chloride **323579-00-6P**, 6-Amino-5-chloro-2-methylbenzoxazole **851486-89-0P**, 6-Amino-5,7-dichloro-2-methylbenzoxazole **851486-90-3P**, 6-[[2-[(4-Dodecyloxyphenyl)sulfonyl]butanoyl]amino]-5,7-dichloro-2-methylbenzoxazole **851486-91-4P**, 2,4-Dichloro-3-[[2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl]amino]-6-aminophenol **851486-92-5P**, 2,4-Dichloro-3-[[2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl]amino]-6-(3,4-dichlorobenzoylamino)phenol **851486-93-6P**, 6-Amino-5-fluoro-2-methylbenzoxazole **851486-94-7P**, 6-Amino-7-chloro-5-fluoro-2-methylbenzoxazole **851486-95-8P**, 6-[[2-[(4-Dodecyloxyphenyl)sulfonyl]butanoyl]amino]-7-chloro-5-fluoro-2-methylbenzoxazole **851486-96-9P**, 6-Amino-2-chloro-3-[[2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl]amino]-4-fluorophenol **851486-97-0P**, 2-Chloro-3-[[2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl]amino]-4-fluoro-6-(pivaloylamino)phenol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for preparing 6-chloro-2,5-dicarbonamidophenol compds. by N-acylation of alkyl(amino)benzoxazole derivs. followed by hydrolysis

and N-acylation)

IT **13452-16-9P**, 5-Chloro-2-methyl-6-nitrobenzoxazole
40703-40-0P, 5-Fluoro-2-methyl-6-nitrobenzoxazole
323579-00-6P, 6-Amino-5-chloro-2-methylbenzoxazole
851486-89-0P, 6-Amino-5,7-dichloro-2-methylbenzoxazole
851486-90-3P, 6-[[2-[(4-Dodecyloxyphenyl)sulfonyl]butanoyl]amino]-5,7-dichloro-2-methylbenzoxazole **851486-92-5P**, 2,4-Dichloro-3-[[2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl]amino]-6-(3,4-dichlorobenzoylamino)phenol **851486-93-6P**, 6-Amino-5-fluoro-2-methylbenzoxazole **851486-94-7P**, 6-Amino-7-chloro-5-fluoro-2-methylbenzoxazole **851486-95-8P**, 6-[[2-[(4-Dodecyloxyphenyl)sulfonyl]butanoyl]amino]-7-chloro-5-fluoro-2-methylbenzoxazole **851486-97-0P**, 2-Chloro-3-[[2-[(4-dodecyloxyphenyl)sulfonyl]butanoyl]amino]-4-fluoro-6-(pivaloylamino)phenol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for preparing 6-chloro-2,5-dicarbonamidophenol compds. by N-acylation of alkyl(amino)benzoxazole derivs. followed by hydrolysis and N-acylation)

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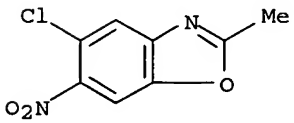
CN Benzoxazole, 5-chloro-2-methyl-6-nitro- (8CI, 9CI) (CA INDEX NAME)



RN 40703-40-0 HCAPLUS
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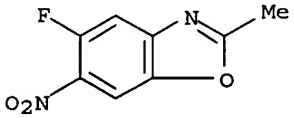

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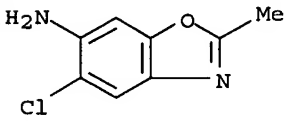

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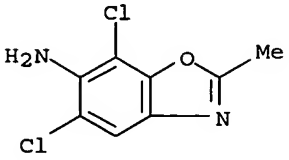

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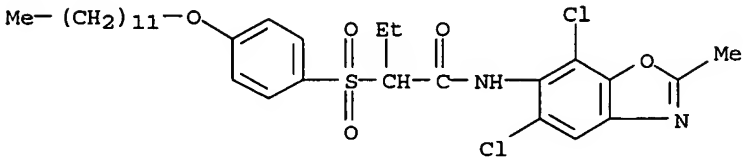
(dodecyloxy)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



RN 851486-92-5 HCAPLUS
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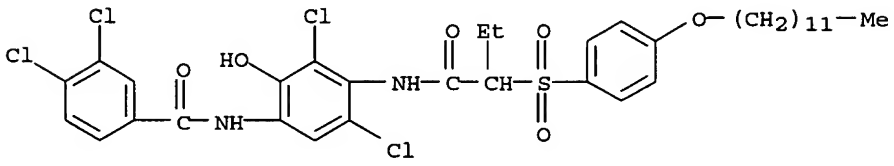

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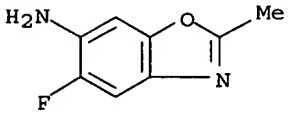

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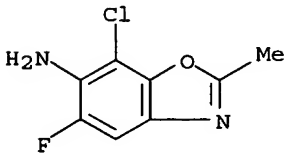

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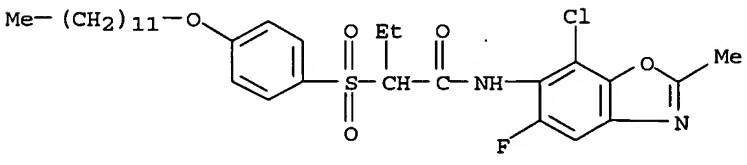

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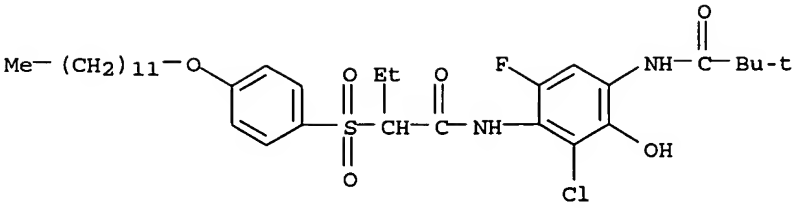

L24 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1967:2504 HCAPLUS
DN 66:2504
ED Entered STN: 12 May 1984
TI Syntheses of heterocyclic compounds. XIV. Oxazoles from the pyrolysis of aryl azides in a mixture of a carboxylic and polyphosphoric acid
AU Garner, Robert; Mullock, E. B.; Suschitzky, Hans
CS Roy. Coll. Advan. Technol., Salford, UK
SO Journal of the Chemical Society [Section] C: Organic (1966), (21), 1980-3
CODEN: JSOOAX; ISSN: 0022-4952
DT Journal
LA English
CC 28 (Heterocyclic Compounds (More Than One Hetero Atom))
GI For diagram(s), see printed CA Issue.
AB cf. CA 65, 15366b. Aromatic azides (I) with a para-substituent decompose thermally in a mixture of polyphosphoric and a carboxylic acid to give oxazoles (II), or in some cases N,O-diacyl o-aminophenols, in good yield. Various aspects of this nitrene mechanism are discussed. 18 references.
ST OXAZOLES BENZO; AZIDES; BENZOXAZOLES
IT Aryl azides
RL: RCT (Reactant); RACT (Reactant or reagent)
(pyrolysis of)
IT 288-42-6D, Oxazole, derivs.
RL: RCT (Reactant); RACT (Reactant or reagent)
(from azide pyrolysis)
IT 833-62-5P **5683-43-2P** 13243-31-7P 13243-32-8P 13243-36-2P
13243-37-3P **13243-38-4P** **13243-39-5P** 13243-40-8P
13438-55-6P 13452-13-6P 13452-14-7P 13452-15-8P **13452-16-9P**
13452-17-0P 13473-67-1P 14724-89-1P 15260-89-6P
34594-87-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT **5683-43-2P** **13243-38-4P** **13243-39-5P**
13452-16-9P **13452-17-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
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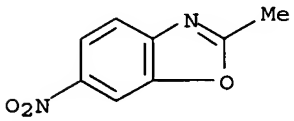

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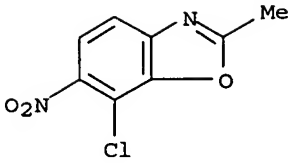

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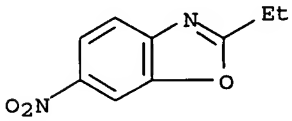
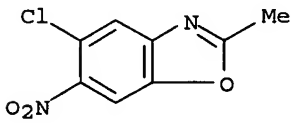


RN 13452-16-9 HCAPLUS
CN Benzoxazole, 5-chloro-2-methyl-6-nitro- (8CI, 9CI) (CA INDEX NAME)



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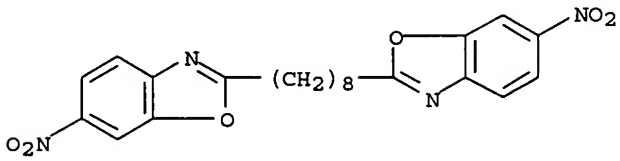

L24 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1953:41191 HCAPLUS
DN 47:41191
OREF 47:6894f-i,6895a-e
ED Entered STN: 22 Apr 2001
TI Quinone imides. XVIII. p-Quinonedipivalimides and their reactions
AU Adams, Roger; Stewart, John M.
CS Univ. of Illinois, Urbana
SO Journal of the American Chemical Society (1952), 74, 3660-4
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA Unavailable
CC 10 (Organic Chemistry)
AB To 10.8 g. p-C6H4(NH2)2 (I) in 125 cc. pyridine was added slowly with stirring 25.3 g. Me3CCOCl (II) (obtained nearly quantitatively by refluxing the acid 1 hr. with excess SOCl2), and the mixture poured after 6 hrs. into excess HCl and ice to give 25.5 g. (93%) p-C6H4(NHCOCMe3)2, m. 283° (from dioxane). Similarly was prepared from 4.6 g. Ph3CCOCl (obtained by carbonation of Ph3CMgCl and treatment of the acid with SOCl2) in 20 cc. pyridine and 0.81 g. I in 10 cc. pyridine 4.5 g. (92.5%) p-C6H4(NHCOCPh3)2, m. 324-6° (from HCONMe2). I (5.0 g.) and 20 cc. CF3CO2H refluxed 7 hrs., and the mixture poured into 400 cc. dilute HCl

yielded 5.9 g. (38%) p-C6H4(NHCOCF3)2, m. 274° (from dioxane), which, refluxed with Pb(OAc)4 in CHCl3, tarry, amorphous products. A similar oxidation of p-C6H4(NH-COCCl3)2 gave a small yield of an unstable product. Equimolar amts. of N,N'-(p-phenylene)dipivalamides (III) and Pb(OAc)4 refluxed 2 hrs. in dry CCl4 (25 cc./g. III) yielded the corresponding substituted N,N'-dipivalyl-p-quinone diimines [substituent, m.p., % yield given]: H (V), 164.5°, 84; 2-Cl (VI), 81-8.5°, 65; 2,6-Cl2 (VII), 104.5-6.5°, 85; 2,5-Cl2 (VIII), 159.5-60.5°, 80; 2,3-Cl2 (IX), 138.5-9.5°, 75; 2,3,5-Cl3 (X), 115.5°, 78 (all recrystd. from petr. ether), p-C6H4(NHCOCMe3)2 (0.83 g.) and an equivalent amount of Pb(OAc)4 in Ac2O stirred 24 hrs. at 70° and the mix decomposed with 500 cc. H2O gave 31% 2,3,5,6-tetrachloro-IV, m. 200.5-1°. HCl passed into a petr. ether solution of the IV precipitated Cl-substituted III (substituent, m.p., and yield given): 2-Cl, 215°, 90; 2,6-Cl2 (XI), 257°, 95, from VI; 2,3,5-Cl3 (XII), m. 205-6° with rapid shrinking at 196°, 96% from VIII, 97% from IX, and 24% from VII (all from CHCl3-petr. ether); and 2,3,5,6-Cl4 (XIII), m. 335-5.5° (from CHCl3), 44 yield together with 45% 2-tert-butyl-4,5,7-trichloro-6-(pivalylamino)benzoxazole, m. 225° (from aqueous EtOH), from X. V (0.69 g.) in 10 cc. glacial AcOH let stand 1 day at room temperature and poured into H2O yielded 0.3 g. (36%) 2,1,4-AcOC6H3(NHCOCMe3)2 (XIV), needles, m. 156.5-7° (from CHCl3). To 9.0 g. V added slowly with stirring and cooling 9 cc. 98% HCO2H, and the mixture diluted with cold Et2O yielded 8.5 g. (81%) 2,1,4-HCOC6H3(NH-COCMe3)2 (XV), platelets, m. 200-1° (from CHCl3). XIV refluxed 30 min. with 10% aqueous NaOH gave 2,5-(Me3CCONH)2C6H3OH (XVI), needles, m. 248° (from petr. ether), also obtained in 90% yield by boiling 4.0 g. XV in 100 cc. (CH2OH)2 5 min., or in 77% yield by alkaline hydrolysis of XV. XVI (0.30 g.) heated 15 min. at 250° and 100 mm. pressure and the cooled melt triturated with 15 cc. Et2O yielded 0.18 g. (84%) 2-tert-butyl-6-(pivaloylamino)benzoxazole, platelets or needles, m. 164-5° (from Et2O-petr. ether), hydrolyzed to XVI by refluxing 3 hrs. with 10% aqueous NaOH. The following Cl-substituted III (substituent given) were prepared from the corresponding Cl-substituted 1.2HCl salts and II in pyridine: 2,5-Cl2, needles, m. 239-40° (from CHCl3-petr. ether); 2,3-Cl2, needles, 61%, m. 200-1° (from MeOH) [the free diamine, needles, m. 120.5-1° (from H2O)]; XI, m. 256-7°, in poor yield. HCl passed 10 min. into 7.0 g. VII in 250 cc. petr. ether and the product chromatographed from 8 l. 3:1 petr. ether-Et2O mixture on activated Al2O3 gave 24% XII and 33% 2-tert-butyl-5,7-dichloro-6-(pivalylamino)benzoxazole (XVII), needles, m. 165.5-7.5° (from petr. ether). Aqueous alkaline hydrolysis of XVII yielded 88% 2,4,3,6-Cl2(Me3CCONH)2C6HOH (XVIII), needles, m. 226° (from Et2O-petr. ether). XVIII in (CH2OH)2 boiled 10 min. gave XVII. Cl passed into 2.0 g. XVI in 100 cc. glacial AcOH at 20° to a weight increase of 0.95 g., and the mixture E poured into 600 cc. cold H2O gave XVIII. To 0.12 g. XVIII in 20 cc. H2O and 0.5 cc. 5% aqueous NaOH was added with stirring 0.04 cc. Ac2O to give 0.10 g. (83%) acetate of XVIII, m. 267-8° (from CHCl3-petr. ether). IX (0.3 g.) in 5 cc. 98% HCO2H let stand 0.5 hr. at room temperature, the red solution diluted with 75 cc. Et2O, extracted with 100 cc. 5% aqueous NaOH, and the extract acidified with HCl yielded 0.2 g. (63%) 3,4,2,5-Cl2(Me3CCONH)2C6HOH, m. 190.5-1° (from CHCl3-petr. ether). Similarly was prepared 3,6,2,5-Cl2(Me3CCONH)2C6HOH, 44%, m. 199.5-200.5° (from CHCl3-petr. ether), from VIII. p-C6Cl4(NH2)2 (2.5 g.) and 2.5 g. II in 25 cc. pyridine refluxed 4.5 hrs. gave 4.0 g. (95%) XIII.

IT Quinone imines

IT Oxidation
(of N,N'-p-phenylenebis amides)

IT Propionamide, N,N'-[2,3-dichloro-3-5-hydroxy-p-phenylene)bis[2,2-dimethyl-
Propionamide, N,N'-[2,3-dichloro-5-5-hydroxy-p-phenylene)bis[2,2-dimethyl-
Propionamide, N,N'-[2,5-dichloro-3-5-hydroxy-p-phenylene)bis[2,2-dimethyl-
Propionamide, N,N'-[2,5-dichloro-5-5-hydroxy-p-phenylene)bis[2,2-dimethyl-

IT 859057-55-9, Propionamide, N,N'-(hydroxy-p-phenylene)bis[2,2-dimethyl-
(and esters)

IT 4257-74-3, Acetamide, N,N'-p-phenylenebis[2,2,2-trichloro-

(oxidation of)
IT 404-28-4, Acetamide, N,N'-p-phenylenebis[2,2,2-trifluoro- 6068-70-8, Acetyl chloride, triphenyl- 6937-98-0, Propionamide, N,N'-p-phenylenebis[2,2-dimethyl- 41946-53-6, p-Phenylenediamine, 2,3-dichloro- 313394-34-2, Propionamide, N,N'-(chloro-p-phenylene)bis[2,2-dimethyl- 854052-01-0, p-Benzoquinone diimine, 2,3,5-trichloro-N,N'-dipivaloyl- 854052-02-1, p-Benzoquinone diimine, 2,3,5,6-tetrachloro-N,N'-dipivaloyl- 854052-25-8, p-Benzoquinone diimine, 2-chloro-N,N'-dipivaloyl- 854053-46-6, p-Benzoquinone diimine, 2,6-dichloro-N,N'-dipivaloyl- 854053-47-7, p-Benzoquinone diimine, 2,5-dichloro-N,N'-dipivaloyl- 854053-48-8, p-Benzoquinone diimine, 2,3-dichloro-N,N'-dipivaloyl- **854164-19-5**, Benzoxazole, 2-tert-butyl-4,5,7-trichloro-6-pivalamido- **854164-19-5**, Propionamide, N-(2-tert-butyl-4,5,7-trichloro-6-benzoxazolyl)-2,2-dimethyl- **854164-20-8**, Benzoxazole, 2-tert-butyl-6-pivalamido- **854164-20-8**, Propionamide, N-2-tert-butyl-6-benzoxazolyl-2,2-dimethyl- **854164-22-0**, Benzoxazole, 2-tert-butyl-5,7-dichloro-6-pivalamido- **854164-22-0**, Propionamide, N-(2-tert-butyl-5,7-dichloro-6-benzoxazolyl)-2,2-dimethyl- 855464-56-1, p-Benzoquinone diimine, N,N'-dipivaloyl- 856985-71-2, Propionamide, N,N'-(2,6-dichloro-p-phenylene)bis[2,2-dimethyl- 856985-73-4, Propionamide, N,N'-[2,5-dichloro-p-phenylene]bis[2,2-dimethyl- 856985-75-6, Propionamide, N,N'-[2,3-dichloro-p-phenylene]bis[2,2-dimethyl- 856985-79-0, Propionamide, N,N'-(3,5-dichloro-2-hydroxy-p-phenylene)bis[2,2-dimethyl-, acetate 857231-91-5, Propionamide, N,N'-(trichloro-p-phenylene)bis[2,2-dimethyl- 857943-06-7, Propionamide, N,N'-(tetrachloro-p-phenylene)bis[2,2-dimethyl- **859301-32-9**, Propionamide, N,N'-(3,5-dichloro-2-hydroxy-p-phenylene)bis[2,2-dimethyl- 861058-90-4, Acetamide, N,N'-p-phenylenebis[2,2,2-triphenyl-
(preparation of)
IT **854164-19-5**, Benzoxazole, 2-tert-butyl-4,5,7-trichloro-6-pivalamido- **854164-20-8**, Benzoxazole, 2-tert-butyl-6-pivalamido- **854164-22-0**, Benzoxazole, 2-tert-butyl-5,7-dichloro-6-pivalamido- **859301-32-9**, Propionamide, N,N'-(3,5-dichloro-2-hydroxy-p-phenylene)bis[2,2-dimethyl-
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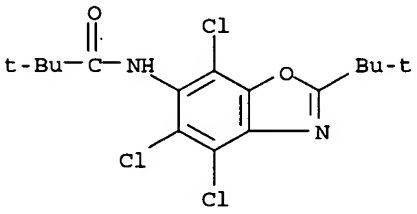

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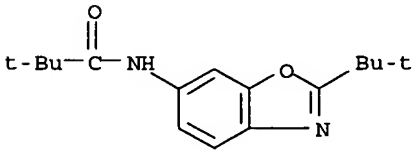

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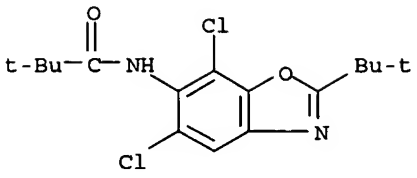
CN INDEX NAME NOT YET ASSIGNED



RN 859301-32-9 HCAPLUS
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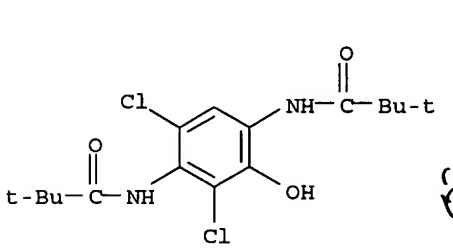
(5CI) (CA INDEX NAME)



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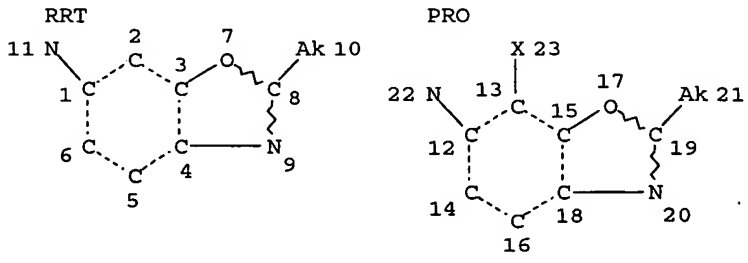

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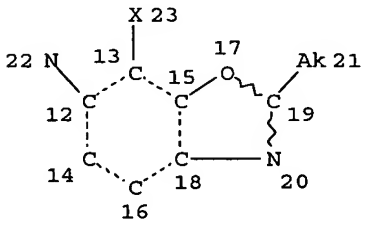

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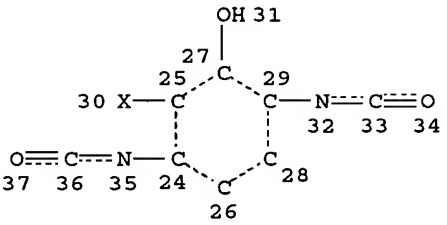


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L23            1 L21-22 AND L18-20
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